### GUIDANCE FOR DEVELOPMENT OF SOFTWARE UTILIZING THE NND-CNP NOTES ON NUTRIENTS (Prepared 4/95)

**NUTRIENT DATABASE ISSUES:** 

#### INTRODUCTION

The NND-CNP files which comprise the CNP Nutrient Database are the NUTRIENT VALUES (NUTVAL) and NUTRIENT DESCRIPTION (NUTDES) files. The NUTVAL file contains the nutrient values for 100 gram portions of food identified by CNP codes or linked to CNP codes as Includes or Subcodes. The NUTDES file provides the descriptions for the nutrients identified by code in the NUTVAL file.

### DATA FIELDS IN THE NUTRIENT VALUES (NUTVAL) FILE

The NUTVAL file is the largest file in the NND in terms of number of records, since for each CNP code there are fifteen records in the NUTVAL file, containing values for each of the nutrients in the NND. There are no "missing" or unknown nutrient values in the NND. A zero in the nutrient value field represents a true zero value. The attached Sample File Listing shows the format of this file.

**CNP CODE** identifies the food to which each nutrient values is attached.

**NUTRIENT CODE** identifies the nutrient for which each value is a measure. NUTRIENT CODE links to the NUTDES file for NUTRIENT DESCRIPTION. (Users do not need to see the nutrient code.)

**NUTRIENT VALUE** is the amount of the specific nutrient present in a 100 gram portion of the food(s) represented by that CNP code.

**VALUE TYPE CODE** is a data quality record code to identify how the nutrient value was derived. (Software developers do not need to use this field and end users do not need to see this field.)

**NOTE:** The order of nutrient records in this file is not meaningful; it is simply numerical by nutrient code. This is NOT a suggested order for NSMP software systems. See discussion at the end of this document for a suggestion about nutrient order on software displays and reports.

#### DATA FIELDS IN THE NUTRIENT DESCRIPTION (NUTDES) FILE

The attached File Listing displays the entire NUTDES file from CN1.

**NUTRIENT CODE**, the identification number for a nutrient, serves as the link between the nutrient values in the NUTVAL file and the text descriptions in the NUTDES file.

**NUTRIENT DESCRIPTION** is the "long" description of each nutrient.

**NUTRIENT DESCRIPTION (ABBREVIATED)** is a <u>suggested</u> abbreviation that software developers could use on their screen displays and reports. These are not required. But if an abbreviation of a full nutrient name is used, it must be recognizable by the general user.

#### **NUTRIENT UNITS**

Release 1 of the NND-CND did not contain information about the <u>unit of measure</u> attached to each nutrient value (calories, grams, milligrams, International Units, Retinol Equivalents, etc). A field for NUTRIENT UNIT has been added to the NUTDES file for Release 2 (expected June 1995). A listing of this file is attached.

#### OTHER CHANGES TO FILES WITH CN2

Three fields will be added to the file – DATE ADDED, LAST MODIFIED and STATUS. These fields identify data that has been added, changed or discontinued when a new release of the NND-CNP is distributed.

MISC NUTRIENT ANALYSIS SOFTWARE ISSUES:

#### SUGGESTED NUTRIENT ORDER FOR NSMP ANALYSIS

Unless there are specific reasons for doing otherwise, nutrients should be printed in the <u>same</u> order on <u>all</u> reports and screen displays. A suggested order (which groups the nutrients somewhat) is

- 1. calories
- 2. protein
- 3. vitamin A (RE)
- 4. vitamin A (IU)
- 5. vitamin C
- 6. iron
- 7. calcium
- 8. total fat
- 9. saturated fat
- 10. carbohydrates
- 11. dietary fiber
- 12. cholesterol
- 13. sodium
- 14. water
- 15. ash

In this grouping scheme, items 1 through 9 currently have USDA nutrient standards while items 10 through 15 do not.

#### CONVERSION OF DAILY REFERENCE VALUES (PERCENTAGE TO UNITS)

When a user enters a local food (often from a nutrition label), the system must accept entry of certain nutrient values in units or in percentage of Daily Reference Value (%DRV), and convert %DRV amounts to unit amounts. However, the system should not

allow inconsistent data to be entered in <u>both</u> fields for the <u>same</u> nutrients. For example, if the Vitamin C value of a food was entered as 100% of the DRV, the system should convert this to 60 mg; if the number 300 was later entered into the mg field for Vitamin C, the %DRV number should automatically change, so that the %DRV is kept equivalent to the mg of Vitamin V. The problem of inconsistent %DRV and unit values could be avoided by either always auto-converting the %DRV and amount nutrient fields, or by locking one field if there is data entered in the other.

The system must allow entry of %DRV values greater than 100% and perform accurate conversion of these %DRV values to nutrient amount. A food item may contain an amount of a nutrient that is more than the amount set as "Daily Reference Value" so the nutrient content of the food could be expressed on the food label as some number greater than 100% of the DRV.

#### **VITAMIN A**

When vitamin A nutrient data is entered for local food products, your computer program must allow the input of vitamin A values in retinol equivalents (RE) and international units (IU). The output of vitamin A values for nutrient analysis must be calculated and displayed for the user in retinol equivalents (RE); international units are optional.

As specified, the system should automatically convert between vitamin A values in IU's and RE's when only one value is entered. However, the automatic conversion between vitamin A in IU's and in RE's should be over-ridden if the user enters specific values for both units. In instances when the user only knows one value, it is appropriate that the system should do a "quick and dirty" conversion using the general factor of 1 RE-to-5 IU's. However, if values for both units are available, the user should be able to enter the individual, specific values without the system automatically converting the values for the other unit. The 1-to-5 factor is only a general, average conversion. In reality, the relationship between vitamin A value in IU's and the value in RE's differs between animal and plant foods. For an individual food, there may not be a 1 RE to 5 IU relationship. The system must allow the user to enter individual values, if known.

# **Sample File Listing**

NUTVAL FILE AS RELEASED WITH CN1 (Nutval.r1, total records = 27, 105) Page 1 Printed: 4/25/95

Data as of 1/31/94

code     code     value     type       1001     203     .850     1       1001     204     81.110     1       1001     205     .060     1       1001     205     .060     1       1001     208     716.818     1       1001     2255     15.870     1       1001     301     23.500     1       1001     303     .160     1       1001     303     .160     1       1001     307     826.500     1       1001     307     826.500     1       1001     392     754.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     606     50.489     1       1002     203     .850     1       1002     203     .850     1       1002     204     81.110     1       1002     205	CNP	Nutrient	Nutrient	Value
1001   204   81.110   1   1001   205   .060   1   1001   207   2.110   1   1   1001   208   716.818   1   1001   255   15.870   1   1001   291   .0.000   4   1001   301   23.500   1   1001   307   826.500   1   1001   392   754.000   1   1001   606   50.489   1   1002   205   15.870   1   1002   301   23.500   1   1002   301   23.500   1   1002   301   23.500   1   1001   1002   208   716.818   1   1002   207   2.110   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   205   .060   1   1002   205   .060   1   1002   207   2.110   1   1002   208   716.818   1   1002   255   15.870   1   1002   291   .0.000   4   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   304   .160   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1009   307   826.500   1   1009   205   1.280   1   1009   205   1.280   1   1009   205   1.280   1   1009   207   3.930   1   1009   208   402.577   1   1009   208   402.577   1   1009   205   1.280   1   1009   207   3.930   1   1009   207   3.930   1   1009   303   .680   1   1009   303   .680   1   1009   303   .680   1   1009   307   620.500   1   1009   307   620.500   1   1009   309   309   30000   1   1009   300   30000   1   1009   301   1009   302   303.000   1   1009   309   30000   1   1009   3000   1   10000   1   10000   10000   1   1	code	code	value	type
1001   204   81.110   1   1001   205   .060   1   1001   207   2.110   1   1   1001   208   716.818   1   1001   255   15.870   1   1001   291   .0.000   4   1001   301   23.500   1   1001   307   826.500   1   1001   392   754.000   1   1001   606   50.489   1   1002   205   15.870   1   1002   301   23.500   1   1002   301   23.500   1   1002   301   23.500   1   1001   1002   208   716.818   1   1002   207   2.110   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   205   .060   1   1002   205   .060   1   1002   207   2.110   1   1002   208   716.818   1   1002   255   15.870   1   1002   291   .0.000   4   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   303   .160   1   1002   304   .160   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1009   307   826.500   1   1009   205   1.280   1   1009   205   1.280   1   1009   205   1.280   1   1009   207   3.930   1   1009   208   402.577   1   1009   208   402.577   1   1009   205   1.280   1   1009   207   3.930   1   1009   207   3.930   1   1009   303   .680   1   1009   303   .680   1   1009   303   .680   1   1009   307   620.500   1   1009   307   620.500   1   1009   309   309   30000   1   1009   300   30000   1   1009   301   1009   302   303.000   1   1009   309   30000   1   1009   3000   1   10000   1   10000   10000   1   1	1001	203	 850	1
1001   205   .060   1   1001   207   2.110   1   1001   208   716.818   1   1001   255   15.870   1   1001   291   .0.000   4   1001   301   23.500   1   1001   303   .160   1   1001   318   3058.000   1   1001   392   754.000   1   1001   606   50.489   1   1002   203   .850   1   1002   205   16.818   1   1002   205   15.870   1   1002   301   23.500   1   1002   301   23.500   1   1002   303   .160   1   1002   304   30.500   1   1002   301   23.500   1   1002   301   23.500   1   1002   301   23.500   1   1002   301   23.500   1   1002   301   23.500   1   1002   302   303   .160   1   1002   302   303   .160   1   1002   303   3.800   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   826.500   1   1002   307   392   754.000   1   1002   307   3930   1   1002   307   3930   1   1002   401   0.000   1   1002   606   50.489   1   1009   205   1.280   1   1009   205   1.280   1   1009   207   3.930   1   1009   208   402.577   1   1009   205   1.280   1   1009   207   3.930   1   1009   208   402.577   1   1009   205   1.280   1   1009   207   3.930   1   1009   208   402.577   1   1009   207   3.930   1   1009   208   402.577   1   1009   205   1.280   1   1009   301   721.300   1   1009   303   .680   1   1009   303   .680   1   1009   307   620.500   1   1009   307   620.500   1   1009   307   620.500   1   1009   309   303   .680   1   1009   307   620.500   1   1009   309   303   .680   1   1009   307   620.500   1   1009   309   30000   1   1009   309   30000   1   1009   301   1009   302   303.000   1   1009   309   303   303.000   1   1009   309   303.000   1   1009   309   30000   1   1009   309   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   30000   1   1009   300000   1   10009   300000000   1   100000000000000000000				
1001     207     2.110     1       1001     208     716.818     1       1001     255     15.870     1       1001     291     0.000     4       1001     301     23.500     1       1001     303     .160     1       1001     307     826.500     1       1001     307     826.500     1       1001     392     754.000     1       1001     401     0.000     1       1001     401     0.000     1       1001     606     50.489     1       1002     203     .850     1       1002     203     .850     1       1002     203     .850     1       1002     203     .850     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207 <td< td=""><td></td><td></td><td></td><td></td></td<>				
1001   208				
1001     255     15.870     1       1001     291     0.000     4       1001     301     23.500     1       1001     303     .160     1       1001     307     826.500     1       1001     318     3058.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     303				
1001     291     0.000     4       1001     301     23.500     1       1001     303     .160     1       1001     307     826.500     1       1001     318     3058.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     303				
1001     301     23.500     1       1001     303     .160     1       1001     307     826.500     1       1001     318     3058.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     205     .060     1       1002     208     716.818     1       1002     208     716.818     1       1002     208     716.818     1       1002     291     0.000     4       1002     303     .160     1       1002     303     .160     1       1002     303     .160     1       1002     307				
1001     303     .160     1       1001     307     826.500     1       1001     318     3058.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     208     716.818     1       1002     2091     0.000     4       1002     301     23.500     1       1002     303     1.60     1       1002     307     826.500     1       1002     318				
1001     307     826.500     1       1001     318     3058.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     392     754.000     1       1002     401 <td></td> <td></td> <td></td> <td></td>				
1001     318     3058.000     1       1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     291     0.000     4       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     606 <td></td> <td></td> <td></td> <td></td>				
1001     392     754.000     1       1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     303     .160     1       1002     307     826.500     1       1002     307     826.500     1       1002     318     3058.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     401				
1001     401     0.000     1       1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     318     3058.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     601     218.900     1       1009     203 <td></td> <td></td> <td></td> <td></td>				
1001     601     218.900     1       1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     318     3058.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     401     0.000     1       1002     606     50.489     1       1009     203				
1001     606     50.489     1       1002     203     .850     1       1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     307     826.500     1       1002     318     3058.000     1       1002     392     754.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     401     0.000     1       1002     606     50.489     1       1009     203     24.900     1       1009     205				
1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     318     3058.000     1       1002     392     754.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     601     218.900     1       1002     606     50.489     1       1009     203     24.900     1       1009     204     33.140     1       1009     205     1.280     1       1009     205 </td <td></td> <td></td> <td></td> <td></td>				
1002     204     81.110     1       1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     318     3058.000     1       1002     392     754.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     601     218.900     1       1002     606     50.489     1       1009     203     24.900     1       1009     204     33.140     1       1009     205     1.280     1       1009     205 </td <td></td> <td></td> <td></td> <td></td>				
1002     205     .060     1       1002     207     2.110     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     318     3058.000     1       1002     392     754.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     601     218.900     1       1002     606     50.489     1       1009     203     24.900     1       1009     204     33.140     1       1009     205     1.280     1       1009     208     402.577     1       1009     291<				
1002     207     2.110     1       1002     208     716.818     1       1002     255     15.870     1       1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     392     754.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     601     218.900     1       1002     606     50.489     1       1009     203     24.900     1       1009     204     33.140     1       1009     205     1.280     1       1009     207     3.930     1       1009     208     402.577     1       1009     255     36.750     1       1009     301 </td <td></td> <td></td> <td></td> <td></td>				
1002   208   716.818   1     1002   255   15.870   1     1002   291   0.000   4     1002   301   23.500   1     1002   303   .160   1     1002   307   826.500   1     1002   318   3058.000   1     1002   392   754.000   1     1002   392   754.000   1     1002   401   0.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1 <td></td> <td></td> <td></td> <td></td>				
1002   255   15.870   1     1002   291   0.000   4     1002   301   23.500   1     1002   303   .160   1     1002   307   826.500   1     1002   318   3058.000   1     1002   392   754.000   1     1002   401   0.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1 </td <td></td> <td></td> <td></td> <td></td>				
1002     291     0.000     4       1002     301     23.500     1       1002     303     .160     1       1002     307     826.500     1       1002     318     3058.000     1       1002     392     754.000     1       1002     401     0.000     1       1002     601     218.900     1       1002     606     50.489     1       1009     203     24.900     1       1009     204     33.140     1       1009     205     1.280     1       1009     207     3.930     1       1009     208     402.577     1       1009     255     36.750     1       1009     291     0.000     4       1009     301     721.300     1       1009     307     620.500     1       1009     318     1059.000     1       1009     392				
1002   301   23.500   1     1002   303   .160   1     1002   307   826.500   1     1002   318   3058.000   1     1002   392   754.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1 <				
1002   303   .160   1     1002   307   826.500   1     1002   318   3058.000   1     1002   392   754.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1002   307   826.500   1     1002   318   3058.000   1     1002   392   754.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1002   318   3058.000   1     1002   392   754.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1002   392   754.000   1     1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1002   401   0.000   1     1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1002   601   218.900   1     1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1002   606   50.489   1     1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1009   203   24.900   1     1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1				
1009   204   33.140   1     1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1	1002	606	50.489	1
1009   205   1.280   1     1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1	1009	203	24.900	1
1009   207   3.930   1     1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1	1009	204	33.140	1
1009   208   402.577   1     1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1	1009	205	1.280	1
1009   255   36.750   1     1009   291   0.000   4     1009   301   721.300   1     1009   303   .680   1     1009   307   620.500   1     1009   318   1059.000   1     1009   392   303.000   1     1009   401   0.000   1     1009   601   104.900   1	1009	207	3.930	1
1009 291 0.000 4   1009 301 721.300 1   1009 303 .680 1   1009 307 620.500 1   1009 318 1059.000 1   1009 392 303.000 1   1009 401 0.000 1   1009 601 104.900 1	1009	208	402.577	1
1009 301 721.300 1   1009 303 .680 1   1009 307 620.500 1   1009 318 1059.000 1   1009 392 303.000 1   1009 401 0.000 1   1009 601 104.900 1	1009	255	36.750	1
1009 303 .680 1   1009 307 620.500 1   1009 318 1059.000 1   1009 392 303.000 1   1009 401 0.000 1   1009 601 104.900 1	1009	291	0.000	
1009 307 620.500 1   1009 318 1059.000 1   1009 392 303.000 1   1009 401 0.000 1   1009 601 104.900 1	1009	301	721.300	1
1009 318 1059.000 1   1009 392 303.000 1   1009 401 0.000 1   1009 601 104.900 1	1009	303	.680	1
1009 392 303.000 1   1009 401 0.000 1   1009 601 104.900 1				
1009   401   0.000   1     1009   601   104.900   1	1009	318	1059.000	
1009 601 104.900 1				
1009 606 21.092 1				
	1009	606	21.092	1

## **File Listing**

Printed: 4/20/95 Data as of 1/31/94	NUTDES FILE AS RELEASED WITH CN1 Page (Nutdes.r1, total records = 15)		
Nutrient code	Nutrient description	Nutrient desc (abbreviated)	
203	Protein	Pro	
204	Total Fat	Fat	
205	Carbohydrate	Carb	
207	Ash	Ash	
208	Food Energy	FE	
255	Moisture	Mois	
291	TDF	TDF	
301	Calcium	Ca	
303	Iron	Fe	
307	Sodium	Na	
318	Vitamin A (IU)	A, IU	
392	Vitamin A (RE)	A, RE	
401	Vitamin C	VitC	
601	Cholesterol	Chol	
606	Saturated Fat	Sfat	

## **File Listing**

Printed: 4/20/95 NUTDES FILE TO BE RELEASED WITH CN2 Page 1 (Nutdes2. r2, total records = 15)

Nutrient code	Nutrient description	Nutrient desc (abbreviated)	Nutrient Unit
203	Protein	Pro	gm
204	Total Fat	Fat	gm
205	Carbohydrate	Carb	gm
207	Ash	Ash	gm
208	Food Energy	FE	kcals
255	Moisture	Mois	gm
291	Total Dietary Fiber	TDF	gm
301	Calcium	Ca	mg
303	Iron	Fe	mg
307	Sodium	Na	mg
318	Vitamin A (IU)	A, IU	IU
392	Vitamin A (RE)	A, RE	RE
401	Vitamin C	VitC	mg
601	Cholesterol	Chol	mg
606	Saturated Fat	Sfat	gm

Note: This document was originally distributed as part of a packet of seven guidance documents for software developers. The original was dated May 17, 1995 and signed by Ron Vogel. A copy of the original packet is included in the packet of materials sent to new software developers. The letter and packet are available upon request. This Word document was created on January 7, 2005.